

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 09/905,247A  
Source: IFW/6  
Date Processed by STIC: 3/22/05

***ENTERED***



IFW16

**RAW SEQUENCE LISTING** DATE: 03/22/2005  
**PATENT APPLICATION:** US/09/905,247A **TIME:** 11:17:07

Input Set : A:\00384103.txt  
Output Set: N:\CRF4\03222005\I905247A.raw

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3 <110> APPLICANT: Ke, Yi-Bao
4      Nie, Hui-Ling
6 <120> TITLE OF INVENTION: MUTANT TRICHOSANTHIN
8 <130> FILE REFERENCE: 04399/000J615-US0
10 <140> CURRENT APPLICATION NUMBER: 09/905,247A
11 <141> CURRENT FILING DATE: 2001-07-13
13 <160> NUMBER OF SEQ ID NOS: 8
15 <170> SOFTWARE: PatentIn version 3.2
17 <210> SEQ ID NO: 1
18 <211> LENGTH: 289
19 <212> TYPE: PRT
20 <213> ORGANISM: Trichosanthes Kirilowii M.
22 <400> SEQUENCE: 1
24 Met Ile Arg Phe Leu Val Leu Ser Leu Leu Ile Leu Thr Leu Phe Leu
25 1          5           10          15
28 Thr Thr Pro Ala Val Glu Gly Asp Val Ser Phe Arg Leu Ser Gly Ala
29          20          25          30
32 Thr Ser Ser Ser Tyr Gly Val Phe Ile Ser Asn Leu Arg Lys Ala Leu
33          35          40          45
36 Pro Asn Glu Arg Lys Leu Tyr Asp Ile Pro Leu Leu Arg Ser Ser Leu
37          50          55          60
40 Pro Gly Ser Gln Arg Tyr Ala Leu Ile His Leu Thr Asn Tyr Ala Asp
41 65          70          75          80
44 Glu Thr Ile Ser Val Ala Ile Asp Val Thr Asn Val Tyr Ile Met Gly
45          85          90          95
48 Tyr Arg Ala Gly Asp Thr Ser Tyr Phe Phe Asn Glu Ala Ser Ala Thr
49          100         105         110
52 Glu Ala Ala Lys Tyr Val Phe Lys Asp Ala Met Arg Lys Val Thr Leu
53          115         120         125
56 Pro Tyr Ser Gly Asn Tyr Glu Arg Leu Gln Thr Ala Ala Gly Lys Ile
57          130         135         140
60 Arg Glu Asn Ile Pro Leu Gly Leu Pro Ala Leu Asp Ser Ala Ile Thr
61 145         150         155         160
64 Thr Leu Phe Tyr Tyr Asn Ala Asn Ser Ala Ala Ser Ala Leu Met Val
65          165         170         175
68 Leu Ile Gln Ser Thr Ser Glu Ala Ala Arg Tyr Lys Phe Ile Glu Gln
69          180         185         190
72 Gln Ile Gly Lys Arg Val Asp Lys Thr Phe Leu Pro Ser Leu Ala Ile
73          195         200         205
76 Ile Ser Leu Glu Asn Ser Trp Ser Ala Leu Ser Lys Gln Ile Gln Ile
77          210         215         220
80 Ala Ser Thr Asn Asn Gly Gln Phe Glu Ser Pro Val Val Leu Ile Asn
81 225         230         235         240

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84 Ala Gln Asn Gln Arg Val Thr Ile Thr Asn Val Asp Ala Gly Val Val  
 85 245 250 255  
 88 Thr Ser Asn Ile Ala Leu Leu Asn Arg Asn Asn Met Ala Ala Met  
 89 260 265 270  
 92 Asp Asp Asp Val Pro Met Thr Gln Ser Phe Gly Cys Gly Ser Tyr Ala  
 93 275 280 285  
 96 Leu  
 100 <210> SEQ ID NO: 2  
 101 <211> LENGTH: 870  
 102 <212> TYPE: DNA  
 103 <213> ORGANISM: Trichosanthes Kirilowii M.  
 105 <400> SEQUENCE: 2  
 106 atgatcagat tcttagaccc ctctttgcta attctcaccc tcttccttaac aactcctgtct 60  
 108 gtggaggggcg atgttagctt cggttatca ggtgcaacaa gcagttccta tggagtttc 120  
 110 atttcaaattc tgagaaaagc tcttccaaat gaaaggaaac tgtacgatat ccctctgtta 180  
 112 cgttccagtc ttccagggttc tcaacgctac gcattgatcc atctcacaata ttacgcccgt 240  
 114 gaaaaccattt cagtggccat agacgtaacg aacgtctata ttatggata tcgcgctggc 300  
 116 gatacatcctt atttttcaat cgaggcttct gcaacagaag ctgaaaata tgtattcaaa 360  
 118 gacgctatgc gaaaagttac gttccatatt tctggcaatt acgaaaggct tcaaactgtct 420  
 120 gcaggcaaaa taagggaaaa tattccgcatt ggactccctg ctttggacag tgccattacc 480  
 122 actttgtttt actacaacgc caattctgtc gcgtcggcac ttattgtact cattcagtgc 540  
 124 acgtctgagg ctgcgaggta taaaatttatt gagcaacaaa ttggaaagcg tggacaaa 600  
 126 accttcctac caagtttagc aattataagt ttggaaaata gttggctgc tcttcctcaag 660  
 128 caaattcaga tagcgagtac taataatgga cagttgaaa gtcctgtgt gcttataat 720  
 130 gctaaaacc aacgagtcac gataaccaat gttgatgctg gagttgtaac ctccaacatc 780  
 132 gcgttgctgc tgaatagaaa caatatggca gccatggatg acgatgtcc tatgacacag 840  
 134 agctttggat gtggaaagtta tgctatttag 870  
 137 <210> SEQ ID NO: 3  
 138 <211> LENGTH: 21  
 139 <212> TYPE: DNA  
 140 <213> ORGANISM: artificial  
 142 <220> FEATURE:  
 143 <223> OTHER INFORMATION: primer  
 145 <400> SEQUENCE: 3  
 146 gtgcaggcca tggatgttag g 21  
 149 <210> SEQ ID NO: 4  
 150 <211> LENGTH: 30  
 151 <212> TYPE: DNA  
 152 <213> ORGANISM: artificial  
 154 <220> FEATURE:  
 155 <223> OTHER INFORMATION: primer  
 157 <400> SEQUENCE: 4  
 158 aacaatatgg cataggatcc catggatgac 30  
 161 <210> SEQ ID NO: 5  
 162 <211> LENGTH: 27  
 163 <212> TYPE: DNA  
 164 <213> ORGANISM: artificial  
 166 <220> FEATURE:  
 167 <223> OTHER INFORMATION: primer

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169 <400> SEQUENCE: 5
170 aagcgtttg acgaaacctt cctacca
173 <210> SEQ ID NO: 6
174 <211> LENGTH: 27
175 <212> TYPE: DNA
176 <213> ORGANISM: artificial
178 <220> FEATURE:
179 <223> OTHER INFORMATION: primer
181 <400> SEQUENCE: 6
182 attcagatag cgggtactaa taatgga
185 <210> SEQ ID NO: 7
186 <211> LENGTH: 27
187 <212> TYPE: DNA
188 <213> ORGANISM: artificial
190 <220> FEATURE:
191 <223> OTHER INFORMATION: primer
193 <400> SEQUENCE: 7
194 gttgttaacct ccggcatcg gttgctg
197 <210> SEQ ID NO: 8
198 <211> LENGTH: 247
199 <212> TYPE: PRT
200 <213> ORGANISM: Trichosanthes Kirilowii M.
202 <400> SEQUENCE: 8
204 Asp Val Ser Phe Arg Leu Ser Gly Ala Thr Ser Ser Ser Tyr Gly Val
205 1 5 10 15
208 Phe Ile Ser Asn Leu Arg Lys Ala Leu Pro Asn Glu Arg Lys Leu Tyr
209 20 25 30
212 Asp Ile Pro Leu Leu Arg Ser Ser Leu Pro Gly Ser Gln Arg Tyr Ala
213 35 40 45
216 Leu Ile His Leu Thr Asn Tyr Ala Asp Glu Thr Ile Ser Val Ala Ile
217 50 55 60
220 Asp Val Thr Asn Val Tyr Ile Met Gly Tyr Arg Ala Gly Asp Thr Ser
221 65 70 75 80
224 Tyr Phe Phe Asn Glu Ala Ser Ala Thr Glu Ala Ala Lys Tyr Val Phe
225 85 90 95
228 Lys Asp Ala Met Arg Lys Val Thr Leu Pro Tyr Ser Gly Asn Tyr Glu
229 100 105 110
232 Arg Leu Gln Thr Ala Ala Gly Lys Ile Arg Glu Asn Ile Pro Leu Gly
233 115 120 125
236 Leu Pro Ala Leu Asp Ser Ala Ile Thr Thr Leu Phe Tyr Tyr Asn Ala
237 130 135 140
240 Asn Ser Ala Ala Ser Ala Leu Met Val Leu Ile Gln Ser Thr Ser Glu
241 145 150 155 160
244 Ala Ala Arg Tyr Lys Phe Ile Glu Gln Gln Ile Gly Lys Arg Val Asp
245 165 170 175
248 Lys Thr Phe Leu Pro Ser Leu Ala Ile Ile Ser Leu Glu Asn Ser Trp
249 180 185 190
252 Ser Ala Leu Ser Lys Gln Ile Gln Ile Ala Ser Thr Asn Asn Gly Gln
253 195 200 205

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256 Phe Glu Ser Pro Val Val Leu Ile Asn Ala Gln Asn Gln Arg Val Thr  
257 210 215 220  
260 Ile Thr Asn Val Asp Ala Gly Val Val Thr Ser Asn Ile Ala Leu Leu  
261 225 230 235 240  
264 Leu Asn Arg Asn Asn Met Ala  
265 245

RAW SEQUENCE LISTING ERROR SUMMARY                    DATE: 03/22/2005  
PATENT APPLICATION: US/09/905,247A                    TIME: 11:17:08

Input Set : A:\00384103.txt  
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Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,  
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:3,4,5,6,7

c

**VERIFICATION SUMMARY**

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